WHAT IS CLAIMED IS:

- 1. A polymerizable composition comprising:
- (A) a compound including a polymerizable unsaturated group; and
 (B) a macromolecular compound including, at a side chain thereof,
 a structure represented by the following general formula (I):
 General formula (I)

 $\mathbf{Z}^{\mathsf{T}}\mathbf{M}^{\mathsf{T}}$

wherein Z represents COCOO, COO, SO $_3$ or SO $_2$ -N-R where R represents a monovalent organic group and M represents an onium cation.

2. A polymerizable composition according to claim 1, wherein the (B) macromolecular compound including, at a side chain thereof, the structure represented by general formula (I) has a structural unit represented by the following general formula (II):

$$(Y)_{n}$$

$$Z^{\odot} M^{\oplus}$$
(II)

wherein X represents a hydrogen atom, a monovalent organic group, a hydroxyl group, a urethane group, a urea group, a halogen atom, an amino group, an amide group, a sulfonyl group or a sulfonate group, Y represents a divalent organic connecting

group, n denotes 0 or 1, Z represents COCOO, COO, SO $_3$ or SO $_2$ -N-R where R represents a monovalent organic group and M is an onium cation.

- 3. A polymerizable composition according to claim 1, wherein the macromolecular compound (B) comprises a compound for generating radicals by the action of light or heat and has a weight average molecular weight (Mw) of at least 1,000 and no more than 100,000.
- 4. A polymerizable composition according to claim 1, wherein Z of the macromolecular compound (B) represents COCOO.
- 5. A polymerizable composition according to claim 1, wherein \mathbf{M}^{\star} of the macromolecular compound (B) is selected from sulfonium, iodonium, diazonium and azinium.
- 6. A polymerizable composition according to claim 1, wherein the amount of the component (B) in the polymerizable composition is in a range of 0.5 to 50% by mass as a solid.
- 7. A polymerizable composition according to any of claims 1 to 6, further comprising (C) a compound having a maximum absorption wavelength at 700 to 1200 nm.

- 8. A planographic printing plate precursor comprising:
 - a support; and
 - a recording layer disposed on the support,

wherein the recording layer includes the polymerizable composition of any of claims 1 to 7.

- 9. A planographic printing plate precursor comprising:
 - a support; and
 - a recording layer disposed on the support;

whrerein the recording layer includes a polymerizable composition comprising:

- (A) a compound including a polymerizable unsaturated group; and
- (B) a macromolecular compound including, at a side chain thereof, a structure represented by the following general formula (II):

wherein X represents a hydrogen atom, a monovalent organic group, a hydroxyl group, a urethane group, a urea group, a halogen atom, an amino group, an amide group, a sulfonyl group or a sulfonate group, Y represents a divalent organic connecting group, n denotes 0 or 1, Z represents COCOO, COO, SO, or SO, N-R where R represents a monovalent organic group and M represents an onium cation.

- 10. A planographic printing plate precursor according to claim 9, wherein the polymerizable composition further comprises (C) a compound having a maximum absorption wavelength at 700 to 1200 nm.
- 11. A polymerizable composition comprising:
- (1) a compound for generating a radical using light or heat;
- (2) a polymerizable compound; and
- (3) an infrared absorber, wherein;

the molecular weight of the compound (1) generating a radical is at least 1,000 and no more than 50,000.

12. A polymerizable composition according to claim 11, wherein the radical generating compound (1) comprises a macromolecular compound, which includes, at a side chain thereof, a structure represented by the following general formula (I),

 $\mathbf{Z}^{\mathsf{T}}\mathbf{M}^{\mathsf{T}}$

General formula (I)

wherein Z represents COCOO, COO, SO₃ or SO₂-N-R where R represents a monovalent organic group and M represents an onium cation.

13. A polymerizable composition according to claim 12, wherein the macromolecular compound, which includes a structure represented by the general formula (I), has a structural unit

represented by the following general formula (II):

$$\begin{array}{c}
X \\
Y)_n \\
Z \odot M \odot
\end{array}$$

wherein X represents a hydrogen atom, a monovalent organic group, a hydroxyl group, a urethane group, a urea group, a halogen atom, an amino group, an amide group, a sulfonyl group or a sulfonate group, Y represents a divalent organic connecting group, n denotes 0 or 1, Z represents COCOO, COO, SO, or SO, N-R where R represents a monovalent organic group and M represents an onium cation.

- 14. A polymerizable composition according to claim 12, wherein Z of the macromolecular compound (B) represents COCOO.
- 15. A polymerizable composition according to claim 12, wherein M^{\star} of the macromolecular compound is selected from sulfonium, iodonium, diazonium and azinium.
- 16. A polymerizable composition according to claim 11, wherein the amount of the component (I) in the polymerizable composition is in a range of 0.5 to 50% by mass as a solid.
- 17. A planographic printing plate precursor comprising:

a support; and

a recording layer disposed on the support, wherein; the recording layer includes the polymerizable composition of claim 11.

- 18. A planographic printing plate precursor according to claim 17, wherein the polymerizable composition further includes (C) a compound having a maximum absorption wavelength at 700 to 1200 nm.
- 19. A macromolecular compound including, at a side chain thereof, a structure represented by the following general formula (III):

General formula (III)

COCOO M

wherein \mathbf{M}^{\star} represents an onium cation selected from sulfonium, iodonium, diazonium and azinium.

20. A macromolecular compound according to claim 19, wherein the macromolecular compound including, at a side chain thereof, a structure represented by the general formula (III) comprises a structural unit represented by the following general formula (IV).

General formula (IV)

wherein X represents a hydrogen atom, a monovalent organic group, a hydroxyl group, a urethane group, a urea group, a halogen atom, an amino group, an amide group, a sulfonyl group or a sulfonate group, Y represents a divalent organic connecting group, n denotes 0 or 1 and M⁺ represents an onium cation selected from sulfonium, iodonium, diazonium and azinium.